

3/17/2008

10/849,291

24

Deleted: 3/3/2008

Au	30	7440-57-5
Ag	24	7440-22-4
V	12	7440-62-2
Cu	10	7440-50-8
Pt	8	7440-06-4
In	7	7440-74-6
Mn	3	7439-96-5
Ni	3	7440-02-0
Bi	2	7440-69-9

IC C22C009-00

CC 56-9 (Nonferrous Metals and Alloys)

Section cross-reference(s): 57

IT 60411-57-6

RL: USES (Uses)

(metalization with, of cubic boron nitride)

L36 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:78308 HCAPLUS Full-text

DOCUMENT NUMBER: 84:78308

ORIGINAL REFERENCE NO.: 84:12829a,12832a

TITLE: Platinum alloy

INVENTOR(S): Savitskii, E. M.; Polyakova, V. P.; Gorina, N. B.; Voronova, L. I.

PATENT ASSIGNEE(S): Baikov, A. A., Institute of Metallurgy, USSR

SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom.

Obraztsy, Tovarnye Znaki 1975, 52(35), 75.

CODEN: URXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Russian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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SU 485165	A1	19750925	SU 1974-2019612	197404 26
			SU 1974-2019612	A 197404 26

AB Addition of In or Al to a Pt alloy increases hardness and extends the color range. The Pt alloy contains In or Al 40.0-65.0, Pb 0.5-1.0, and Fe 0.2-0.8 weight%.

IT 58385-17-4

RL: USES (Uses)

(coloring and hardening of)

RN 58385-17-4 HCAPLUS

CN Indium alloy, base, In 40-65,Pt 33-59,Pb 0.5-1,Fe 0.2-0.8 (9CI) (CA INDEX NAME)

Component	Component Percent	Component Registry Number
In	40 - 65	7440-74-6
Pt	33 - 59	7440-06-4
Pb	0.5 - 1	7439-92-1
Fe	0.2 - 0.8	7439-89-6

IC C22C
CC 56-2 (Nonferrous Metals and Alloys)
IT 58385-16-3 58385-17-4
RL: USES (Uses)
(coloring and hardening of)

L36 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1972:465564 HCAPLUS Full-text
DOCUMENT NUMBER: 77:65564
ORIGINAL REFERENCE NO.: 77:10811a,10814a
TITLE: Gold-base alloys for use in dentistry and
industry
INVENTOR(S): Burnett, Arthur Peter
PATENT ASSIGNEE(S): Ney, J. M., Co.
SOURCE: U.S., 2 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3666540	A	19720530	US 1967-656048	196707 26
				196707 26

PRIORITY APPLN. INFO.: US 1967-656048 A

AB A Au alloy of good corrosion resistance, high solidus temperature, satisfactory hardness, and good casting properties is provided for dental purposes. The alloy contains Au 78-85, Pd 8-13, Pt 4-8, Fe 0.7-1.0, Sn 0.9-1.4, and Re 0.07-0.2%. The addition of Re provides grain refining, while the addition of Ag (up to 2), Zn (up to 1.5% and In (up to 1%) promotes fluidity. The hardness of the alloy can be developed by air-cooling from >980° to 100-150° at a rate of 80-130°/min. Age hardening of the alloy is done at 530-45° for 15-30 min and for optimum results the Fe:Pt ratio should be kept at 0.4-0.6:1. Thus, a cast Au alloy having a solidus temperature of 1173° and a thermal linear expansion coefficient of 1.4×10^{-5} degree⁻¹ was made by casting an alloy composition containing Au 81.0, Pd 8.3, Pt 2.2, Fe 0.6, Sn 2.2, and Re 0.1% in a phosphate bonded investment mold. The alloy was air-cooled from 926°. After age hardening the ultimate tensile strength of the alloy was 90,000 psi.

IT 37200-84-3
RL: USES (Uses)
(for dentistry)
RN 37200-84-3 HCAPLUS
CN Gold alloy, base, Au 78-85, Pd 8-13, Pt 4-8, Ag 0-2, Zn 0-1.5, Sn 0.9-1.4, Fe 0.7-1, In 0-1, Re 0.1-0.2 (9CI) (CA INDEX NAME)

Component	Component Percent	Component Registry Number
Au	78 - 85	7440-57-5
Pd	8 - 13	7440-05-3
Pt	4 - 8	7440-06-4
Ag	0 - 2	7440-22-4